## SIEMENS

## Data sheet

## 3LD2804-0TK51



SENTRON, Switch disconnector 3LD, main switch, 3-pole, lu: 125 A, Operating power / at AC-23 A at 400 V: 45 kW, front-mounted, rotary operating mechanism, black, 4-hole mounting of the handle

Model	
product brand name	SENTRON
product designation	3LD Switch disconnector
design of the product	Main switch
display version / for switch position indicator manual operation	1 ON - 0 OFF
design of the actuating element	Short rotary knob
design of handle	rotary operating mechanism, black
type of the driving mechanism / motor drive	No
General technical data	
number of poles	3
type of device	fixed mounting
type of switch	front mounted
size of switch disconnector	4
mechanical service life (switching cycles) / typical	100 000
electrical endurance (switching cycles)	
• at AC-23 A / at 690 V	6 000
I2t value / with closed switch / at 690 V / for combination switch + gG fuse / maximum	104 kA2.s
let-through I2t value / with closed switch / at 440 V / for combination switch + gG fuse / maximum	104 kA2.s
operating frequency / maximum	50 1/h
Voltage	
insulation voltage / rated value	690 V
surge voltage resistance / rated value	6 kV
operational current / at AC / rated value	125 A
Protection class	
protection class IP	IP65
degree of protection NEMA rating	1, 3R, 4X, 12
protection class IP / on the front	IP65
Dissipation	
power loss [W]	
<ul> <li>for rated value of the current / at AC / in hot operating state / per pole</li> </ul>	12 W
<ul> <li>per conductor / typical</li> </ul>	12 W
Current	
operational current	
• at AC-23 A / at 400 V / rated value	80 A

• at AC-21 / at 690 V / rated value	125 A
at AC-21 A / at 240 V / rated value	125 A
at AC-21 A / at 440 V / rated value	125 A
operational current / of upstream fuse / rated value	125 A
<ul> <li>let-through current / with closed switch</li> <li>at 440 V / for combination switch + gG fuse / maximum</li> </ul>	10 kA
• at 690 V / for combination switch + gG fuse /	10 kA
maximum permissible	
Main circuit	
operating power	
<ul> <li>at AC-23 A / at 240 V / rated value</li> </ul>	22 kW
• at AC-23 A / at 400 V / rated value	45 kW
• at AC-23 A / at 440 V / rated value	45 kW
• at AC-23 A / at 690 V / rated value	37 kW
• at AC-3 / at 240 V / rated value	22 kW
• at AC-3 / at 400 V / rated value	37 kW
at AC-3 / at 690 V / rated value	30 kW
operational current / rated value	125 A
Auxiliary circuit	
number of CO contacts / for auxiliary contacts	0
number of NC contacts / for auxiliary contacts	0
number of NO contacts / for auxiliary contacts	0
operating voltage / of auxiliary contacts / at AC / maximum	500 V
continuous current / of the auxiliary contact / rated value	10 A
insulation voltage / of the auxiliary switch / rated value	500 V
Suitability	
suitability for use	
<ul> <li>main switch</li> </ul>	Yes
<ul> <li>switch disconnector</li> </ul>	Yes
<ul> <li>EMERGENCY OFF switch</li> </ul>	No
- a statu a witch	
<ul> <li>safety switch</li> </ul>	Yes
safety switch     maintenance/repair switch	Yes
-	
maintenance/repair switch	
maintenance/repair switch Appearance	Yes
maintenance/repair switch Appearance color / of the actuating element	Yes
maintenance/repair switch Appearance color / of the actuating element Product details      product function / can be locked into OFF position	Yes black
maintenance/repair switch Appearance color / of the actuating element Product details	Yes black Yes
maintenance/repair switch Appearance color / of the actuating element Product details      product function / can be locked into OFF position number of bracket locks / maximum hasp thickness / of the bracket locks / minimum	Yes black Yes 3
maintenance/repair switch     Appearance     color / of the actuating element     Product details         • product function / can be locked into OFF position         number of bracket locks / maximum         hasp thickness / of the bracket locks / minimum         hasp thickness / of the bracket locks / maximum	Yes black Yes 3 4 mm
maintenance/repair switch Appearance color / of the actuating element Product details      product function / can be locked into OFF position number of bracket locks / maximum hasp thickness / of the bracket locks / minimum	Yes black Yes 3 4 mm
maintenance/repair switch     Appearance     color / of the actuating element     Product details         • product function / can be locked into OFF position         number of bracket locks / maximum         hasp thickness / of the bracket locks / minimum         hasp thickness / of the bracket locks / maximum         product extension / optional	Yes black Yes 3 4 mm 8 mm
maintenance/repair switch Appearance color / of the actuating element Product details      product function / can be locked into OFF position number of bracket locks / maximum hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum product extension / optional     motor drive	Yes black Yes 3 4 mm 8 mm
maintenance/repair switch Appearance color / of the actuating element Product details      orduct function / can be locked into OFF position number of bracket locks / maximum hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum product extension / optional     motor drive     voltage trigger	Yes black Yes 3 4 mm 8 mm
maintenance/repair switch     Appearance     color / of the actuating element     Product details         e product function / can be locked into OFF position         number of bracket locks / maximum         hasp thickness / of the bracket locks / minimum         hasp thickness / of the bracket locks / maximum         product extension / optional         e motor drive         e voltage trigger         Short circuit         conditional short-circuit current / with line-side fuse	Yes black Yes 3 4 mm 8 mm
maintenance/repair switch     Appearance     color / of the actuating element     Product details         • product function / can be locked into OFF position         number of bracket locks / maximum         hasp thickness / of the bracket locks / minimum         hasp thickness / of the bracket locks / maximum         product extension / optional         • motor drive         • voltage trigger     Short circuit     conditional short-circuit current / with line-side fuse     protection	Yes black Yes 3 4 mm 8 mm No No
maintenance/repair switch     Appearance     color / of the actuating element     Product details         • product function / can be locked into OFF position     number of bracket locks / maximum     hasp thickness / of the bracket locks / minimum     hasp thickness / of the bracket locks / maximum     product extension / optional         • motor drive         • voltage trigger     Short circuit     conditional short-circuit current / with line-side fuse     protection         • at 690 V / by gG fuse / rated value	Yes black Yes 3 4 mm 8 mm No No
maintenance/repair switch     Appearance     color / of the actuating element     Product details	Yes black Yes 3 4 mm 8 mm No No No
<ul> <li>maintenance/repair switch</li> <li>Appearance         <ul> <li>color / of the actuating element</li> </ul> </li> <li>Product details         <ul> <li>product function / can be locked into OFF position</li> <li>number of bracket locks / maximum</li> <li>hasp thickness / of the bracket locks / minimum</li> <li>hasp thickness / of the bracket locks / maximum</li> <li>product extension / optional</li> <li>motor drive</li> <li>voltage trigger</li> </ul> </li> <li>Short circuit         <ul> <li>conditional short-circuit current / with line-side fuse protection</li> <li>at 690 V / by gG fuse / rated value</li> </ul> </li> <li>according UL         <ul> <li>operational current / at AC / according to UL 508/UL 60947-4-1 / rated value</li> <li>operating voltage / at AC / at 50/60 Hz / according to UL</li> </ul> </li> </ul>	Yes black Yes 3 4 mm 8 mm No No No 20 kA
<ul> <li>maintenance/repair switch</li> <li>Appearance</li> <li>color / of the actuating element</li> <li>Product details <ul> <li>product function / can be locked into OFF position</li> <li>number of bracket locks / maximum</li> <li>hasp thickness / of the bracket locks / minimum</li> <li>hasp thickness / of the bracket locks / maximum</li> <li>product extension / optional</li> <li>motor drive</li> <li>voltage trigger</li> </ul> </li> <li>Short circuit <ul> <li>conditional short-circuit current / with line-side fuse protection</li> <li>at 690 V / by gG fuse / rated value</li> </ul> </li> <li>according UL <ul> <li>operational current / at AC / according to UL 508/UL 60947-4-1 / rated value</li> <li>operating voltage / at AC / at 50/60 Hz / according to UL 508/UL 60947-4-1 / rated value</li> <li>active power [hp] / at AC / at 480 V / according to UL</li> </ul> </li> </ul>	Yes black Yes 3 4 mm 8 mm No No No 20 kA 125 A 600 V
<ul> <li>maintenance/repair switch</li> <li>Appearance</li> <li>color / of the actuating element</li> <li>Product details <ul> <li>product function / can be locked into OFF position</li> <li>number of bracket locks / maximum</li> <li>hasp thickness / of the bracket locks / minimum</li> <li>hasp thickness / of the bracket locks / maximum</li> <li>product extension / optional</li> <li>motor drive</li> <li>voltage trigger</li> </ul> </li> <li>Short circuit <ul> <li>conditional short-circuit current / with line-side fuse protection</li> <li>at 690 V / by gG fuse / rated value</li> </ul> </li> <li>according UL <ul> <li>operational current / at AC / according to UL 508/UL 60947-4-1 / rated value</li> <li>active power [hp] / at AC / at 480 V / according to UL 508/UL 60947-4-1 / rated value</li> <li>active power [hp] / at AC / at 600 V / according to UL</li> </ul> </li> </ul>	Yes black Yes 3 4 mm 8 mm No No No 20 kA 125 A 600 V 75

rated value	
type of fuse / according to UL	RK5
Number	
number of connectable NC contacts / for auxiliary contacts / attachable / maximum	3
number of connectable NO contacts / for auxiliary contacts / attachable / maximum	3
number of connectable CO contacts / for auxiliary contacts / attachable / maximum	0
Connections	
AWG number / as coded connectable conductor cross section / solid	
• maximum	1
• minimum	12
type of connectable conductor cross-sections / for copper conductor	
• solid	1x (450mm²)
<ul> <li>finely stranded / with core end processing</li> </ul>	1x (435mm²)
stranded	1x (450mm²)
type of connectable conductor cross-sections / for auxiliary contacts	
• solid	lateral auxiliary switch 2x (0,75 2,5mm <sup>2</sup> ), 1x 4mm <sup>2</sup> ; front auxiliary switch 1x (0,75 2,5mm <sup>2</sup> )
• finely stranded / with core end processing	lateral auxiliary switch 2x (0,75 1,5mm <sup>2</sup> ), 1x 2,5mm <sup>2</sup> ; front auxiliary switch 1x 2,5mm <sup>2</sup>
• stranded	lateral auxiliary switch 2x (0,75 2,5mm <sup>2</sup> ), 1x 4mm <sup>2</sup> ; front auxiliary switch 1x (0,75 2,5mm <sup>2</sup> )
type of electrical connection	
<ul> <li>for main current circuit</li> </ul>	box terminal
<ul> <li>for auxiliary contacts</li> </ul>	connection terminals
Requirements	_
design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit / required</li> </ul>	fuse gL/gG: 125 A
<ul> <li>for short-circuit protection of the auxiliary switch / required</li> </ul>	fuse gL/gG: 10 A
Mechanical Design	
height	106 mm
width	90 mm
depth	112.5 mm
fastening method	Built-in unit fixed-mounted version
fastening method	
• 4-hole front mounting	Yes
front mounting with central attachment	No
rail mounting	No
net weight Environmental conditions	490 g
ambient temperature / during operation <ul> <li>minimum</li> </ul>	-25 °C
• maximum	-25 °C
ambient temperature / during storage / minimum	-25 °C
Certificates	
reference code	
acc. to DIN EN 61346-2	S
• acc. to IEC 81346-2	SF
General Product Approval	
i	



## Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD2804-0TK51

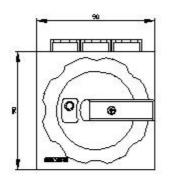
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3LD2804-0TK51

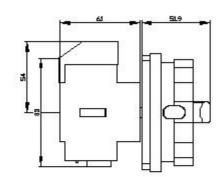
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

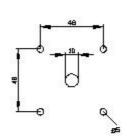
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD2804-0TK51

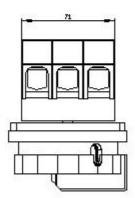
Tender specifications

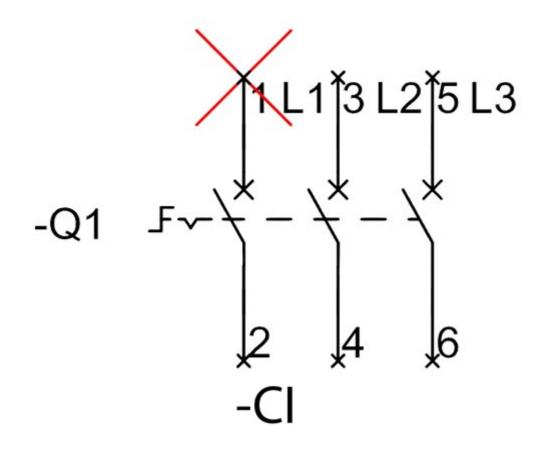
http://www.siemens.com/specifications

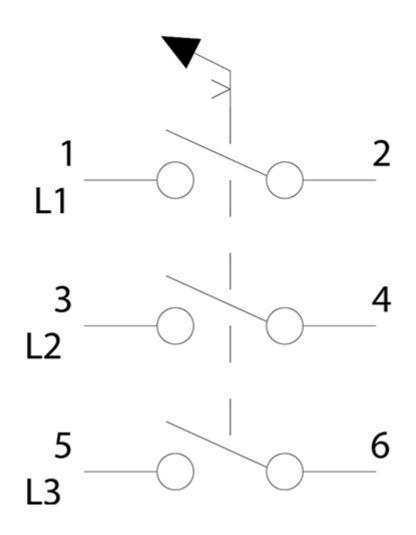












C